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(12) **EUROPEAN PATENT APPLICATION**

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(54) **Adjustable antialias filters.**

(57) A programmable sampled data subsampling system includes a programmable antialias filter which bandlimits the information bandwidth of the signal to be subsampled in accordance with the subsampling rate. The antialias filter includes a recursive filter which scales and combines (304,306,308) input samples and delayed (310) combined samples in proportions of K and (1-K) where K is a variable. The variables K are applied (314,316,318) to the recursive filter in repeating sequences of N values of K where N is the subsampling factor. Every N^{th} combined sample is extracted (312,320) and provided as the subsampled signal.
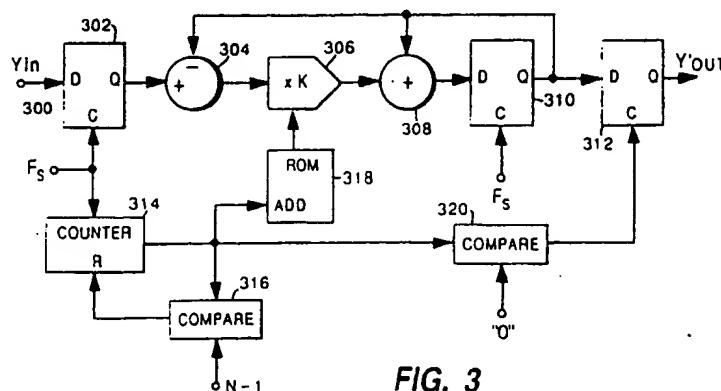
FIG. 3

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DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	1986 IEEE INTERNATIONAL SYMPOSIUM ON CIRCUITS AND SYSTEMS, San Jose, California, 5th - 7th May 1986, vol. 1, pages 289-294; K.R. RAO: "Digital filtering in image coding" * Page 289, left-hand column, line 14 - right-hand column, line 21; page 290, left-hand column, line 31 - right-hand column, line 16; page 291, left-hand column, line 9 - right-hand column, line 11; figures 2,8 *	1,3	H 03 H 17/04
A	IDEM	2,4,7	
Y	IEEE 32ND INTERNATIONAL SOLID-STATE CIRCUITS CONFERENCE, vol. 28, 13th February 1985, pages 80-81,313, Coral Gables, Florida, US, session VII: "Data converters"; M.W. HAUSER et al.: "MOS ADC-filter combination that does not require precision analog components" * Page 80, right-hand column, line 42 - page 81, left-hand column, line 7; figure 4 *	1,3	
A	IDEM	4,5	
A	FR-A-2 532 504 (RCA CORP.)(31-08-1983) * Abstract; page 3, lines 10-30; page 7, line 20 - page 8, line 33; figures 1,3 *	1,2,4,7,8	**TECHNICAL FIELDS SEARCHED (Int. Cl.5)** H 03 H H 04 N

The present search report has been drawn up for all claims

Place of search	Date of completion of search	Examiner
The Hague	22 November 90	WRIGHT J.P.